

Translation from: Referativnyy zhurnal, Geologiya, 1957, Nr 8,  
p 183 (USSR) 15-57-8-11393

AUTHORS: Salayev, S. G., Zeynalov, M. M.

TITLE: Eruption of the Shikhzagirli Gryazovoy Vulkan (Mud  
Volcano) (Izverzheniye gryazevogo vulkana Shikhzagirli)

PERIODICAL: Tr. Azerb. industr. in-ta, 1956, Nr 13, pp 46-52

ABSTRACT:

The volcano is located in Central Kobystan on the southeastern slope of the Great Caucasus 80 km west of Baku. It is associated with the Shikhzagerki fold, the core of which is composed of compressed rock of koun. The mud-volcanic breccias consist of koun rock with a high content of bituminous coal. The volcano acts periodically. Before the last eruption on January 30, 1955, a subterranean rumble was heard for a few minutes; then the volcano began to emit gas, which ignited, forming a column of flame 100m to 200 m high

Card 1/2

15-57-8-11393

Eruption of the Shikhzagirli Gryazovoy Vulkan (Cont.)

and visible at a distance of 42 km. An area with a diameter of 130 m was covered with fresh breccia; the volume of the erupted breccia was 80,000 cu m. Fissures were formed; the chief of these, 600 m long and 0.5 m to 0.8 m wide, passes along the southern edge of the volcanic district.

Card 2/2

Yu. A. Kosygin

ZEYNALOV, M.M.; AKHVERDIYEV, N.T.

Some characteristics of the Astrakhanka mud volcanoes. Azerb.  
nefti. khoz. 40 no. 3:11-13 Mr '61. (MIRA 14:5)  
(Kobystan---Mud volcanoes)

RZAYEV, M.A.; SALAYEV, S.G.; ZEYNALOV, M.M.

Miocene geology of the western Apsheron Peninsula. Trudy AzNII DN  
no.10:31-45 '60. (MIRA 14:4)  
(Apsheron Peninsula--Geology)

SALAYEV, S.G.; ALIYEV, S.M.; ZEYNALOV, M.M.

Data on the geology of Yashma Island [in Azerbaijani with summary in Russian]. Azerb.neft. khoz. 37 no.8:1-3 Ag '58. (MIRA 11:11)  
(Yashma Island--Geology)

RADIROV, S.G.; ZHYMALOV, M.M.

New eruption of the Boz-Dag (Kobi) mud volcano. Azerb. nat'l. khaz.  
37 no.3:9-10 Mr '58. (MIRA 11:8)  
(Boz-lag Range--Mud volcanoes)

ZEYNALOV, M.M.

New data on the roots of mud volcanoes in Kobystan [in Azerbaijani  
with summary in Russian]. Trudy Azerb. ind. inst. no.16:21-25 '57.  
(MIRA 11:9)

(Kobystan--Mud volcanoes) (Breccia)

ZEYTENOK, N.A.; REYZIN, F.N.

Role of sulfhydryl compounds of ECHO viruses in the resistance  
of their hemagglutinins to trypsin. Vop. virus 9 no.4:506-507  
Jl-Ag '64. (MIRA 18:7)

1. Institut poliomiyelita i virusnykh entsefalitov AMN SSSR,  
Moskva.

ZEYNALOV, N.A.

Structural control of the mineralization of gold-ore field in  
a deposit in Transcaucasia. Izv. vys. ucheb. zav.; geol. i  
razv. 6 no.4:99-105 Ap '63. (MIRA 16:6)

1. Moskovskiy geologorazvedochnyy institut im. S. Ordzhonikidze.  
(Transcaucasia--Gold ores)

ZKEYNALOV. N. M., Cand Agr Sci -- "Periods of ~~the~~ cultivation of a grass layer under cotton." Kirovabad, 1960 (Committee of Higher and Secondary Specialized Education of the Council of Ministers AzSSR. Azerbaydzhan Agr Inst). (EL, 1-61, 200)

TOPCHIBASHEV, M.A.; ZEYNALOV, R.I.

Automatic control of operating conditions of a standard petroleum  
refining unit by the quality of raw materials and residue. Za  
tekh.prog. 3 no.10:1-6 0 '63. (MIRA 16:12)

1. Energeticheskiy institut imeni I.G.Yes'mana.

L 11149-66 EWT(m)/EWP(j)/T/EWP(t)/EWP(b) JD/WM/WB/RM

ACC NR: AP6000335

SOURCE CODE: UR/0286/65/000/021/0035/0035

AUTHORS: Kuliyeu, A. M.; Bragin, V. A.; Mamedov, I. A.; Kononov, V. A.;  
Sadykhov, K. I.; Sharifov, F. R.; Zeynalov, S. D.; Mamedov, S. A.; Diadimov, G.  
L.; Negreyev, V. F.

ORG: none

TITLE: A method for protecting metals from corrosion, Class 22, No. 176022

SOURCE: Byulleten' izobreteniy i tovarnykh znakov, no. 21, 1965, 35

TOPIC TAGS: corrosion, corrosion protection, organic acid, carbon dioxide, hydrocarbon, asphalt, corrosion inhibitor

ABSTRACT: This Author Certificate presents a method for protecting metals from corrosion in a medium of low organic acids and carbon dioxide with the help of a corrosion inhibitor. To increase the degree of protection, hydrocarbon-soluble products of neutralising acid asphalts are used as the inhibitor.

SUB CODE: 11/ SUBM DATE: 24Nov64

OC

Card 1/1

UDC: 620.197.3

ABRAMOV, D.M.; ZEYNALOV, S.D.; AGAYEV, N.M.

Electrochemical method for determining the efficiency of corrosion inhibitors for steel in the production of gas-condensate wells. Gaz. delo no.1:22-25 '65.

(MIRA 18:6)

1. Institut khimii AN AzSSR.

NEGREYEV, V.F.; KULIYEV, A.M.; MAMEDOV, I.A.; SADYKHOV, K.I.; ZEYNALOV, S.D.;  
ABDULLAYEVA, G.M.; ZEYNALOVA, K.A.

Investigating some surface-active by-products of the industry of  
oil additives as corrosion inhibitors. Azerb.khim.zhur. no.6:  
57-64 '63. (MIRA 17:3)

AKHUNDOVA, G.V.; ALIYEV, A.A.; ZEYNALOV, S.G.; KASUMOV, S.K.

Comparison of the astroclimatic characteristics of two points.  
Izv. AN Azerb. SSR. Ser. fiz.-mat. i tekhn. nauk no.2:91-102 '63.  
(MIRA 16:10)

AKHUNDOVA, G.V.; ALIYEV, A.A.; ZEYNALOV, S.K.; KASUMOV, S.G.

Scintillation amplitude of a star's image as dependent on the  
zenith distance. Izv. AN Azerb. SSR. Ser. fiz.-mat. i tekhn.  
nauk no.1:95-111 '63. (MIRA 16:7)

(Stars--Observations)

ZEYNALOV, S.S.

One class of linear non-self-conjugate operators depending on  
a complex parameter. Trudy Inst. mat. i mekh. AN Azerb.SSR 1:  
107-111 '61. (MIRA 14:11)

(Operators (Mathematics))

BAGHANLY, E.A.; GURBANOV, R.S.; ZEYNALOV, T.A.

Variations in the temperature regime of the 1st of a producing  
formation in the Kyurovdag oil field. Izv. AN Azerb. SSR. Ser.  
geol.-geog. nauk no.5:87-95 '64. (MIRA 18:6)

ZEYNALOV, V.K.

Complete utilization of the oxidized paraffin distillate. Trudy  
Inst.khim.AN Azerb.SSR 17:164-179 '59, (MIRA 13:4)

1. Institut khimii AN AzerSSR.  
(Petroleum chemicals)

(Paraffins)

ZEYNALOV, V. M. Cand Biol Sci -- (diss) "Rust fungi of ~~the~~ grain, fodder, and wild cereals of Azerbaydzhan." Baku, 1958. 24 pp (Acad Sci Azerbaydzhan SSR. Inst of Agriculture), 100 copies (KL, 14-58, 111)

*"Effectiveness"*  
ZEYNALOV, V. S., Cand Med Sci -- *with in atropine atropine* Efficacy of oxygen therapy in ascariasis and  
of oxygen combined with ~~ascariasis~~ *atropine* in lamblasis in children." Baku, 1960  
(Azerbaijani State Med Inst im N. Narimanov). (KL, 1-61, 207)

-385-

ZEYNALOV, V.S.

Effectiveness of treating ascariasis in children with oxygen.  
Azerb. med. zhur. no. 8:36-39 Ag '60. (MIRA 13:8)  
(ASCARIDS AND ASCARIASIS) (OXYGEN--THERAPEUTIC USE)

ZHYNALOV, Y.S.

Effectiveness of treating intestinal lamblasis in children with  
quinacrine and oxygen. Azerb.med.zhur. no.2:45-48 F '60.

(MIRA 13:5)

(GIARDIASIS)

(QUINACRINE)

(OXYGEN--THERAPEUTIC USE)

MAMEDOV, K.P.; SULEYMANOV, Z.I.; ZEYNALOV, V.Z.

Thermographic study of the process of selenium crystallization  
by means of a multipoint electron potentiometer. Azerb.khim.zhur.  
no.4:84-86 '65. (MIRA 18:12)

1. Institut fiziki AN AzSSR. Submitted March 23, 1964.

ZEYNALOV, V.S.

Effectiveness of oxygen therapy in ancylostomiasis; preliminary  
report. Azerb.med.zhur. no.4:78-79 Ap '58 (MIRA 11:7)

1. Iz kafedry pronedevtiki detskikh bolezney (zav. - dots. A.M.  
Dzhabbar-zade) i kafedry epidemiologii (zav. - zaslughennyy deyatel'  
nauki, prof. P.P. Popov) Azerbaydzhanskogo gosudarstvennogo med-  
itsinskogo instituta im. N.Narimanova.

(HOOKWORMS)

(OXYGEN--THERAPEUTIC USE)

ZEYNALOV, Z.

Competition of highway transport workers in Azerbaijan. Avt.transp.  
38 no.6:4-5 Je '60. (MIRA 14:4)

1. Ministr avtomobil'nogo transporta Azerbaydzhanskoy SSR,  
(Azerbaijan—Transportation, Automotive)

ZEYNALOV, Z.

Azerbaijan S.S.R. Avt.transp. 35 no.10:20 0 '57. (MIRA 10:10)

1.Ministr Avtomobil'nogo transporta Azerbaydzhanskoy SSR.  
(Azerbaijan--Transportation, Automotive)

ZEYNALOV, Z.I.; MAMEDOV, M.K.; USHAKOV, A.P.[deceased]; AKHMEDOVA,  
A.M., red.; SHTEYNGEL', A.S., red.; NASIROV, N., tekhn.red.

[Geology, oil potential, and the economic development of  
Artem Island] Geologiya, neftenosnost' i ekonomicheskoe raz-  
vitiye Artemovskogo raiona. Baku, Azerneshr, 1963. 166 p.  
(MIRA 17:3)

BABALYAN, G.A.; ZEYNALOV, Z.I.; KORKHOVA, Ye.F.; TAIROV, A.I.; AGALAROV, M.S.

An example of flooding of an oil field having bottom water. Truly  
AzNII DN no.3:232-240 '56. (WIRA 11:6)  
(Apsheron Peninsula--Oil well drilling, Submarine)

SALAYEV, S.G.; ZEYNALOVA, E.I.

Submergence of Oligocene-Miocene anticlinal zones of southwestern Kobystan toward the Daheyran-Kechmaz Depression. Dokl. AN Azerb. SSR 17 no.1:41-45 '61. (MIRA 14:3) //

1. Institut geologii AN AzerbSSR. Predstavleno akademikom AN AzerbSSR Sh.F. Mekhtiyevym.

(Kobystan---Geology, Structural)

L 45693-66 ENT(d) IJP(c)

ACC NR: AR6017336

SOURCE CODE: UR/0044/66/000/001/B060/B060

AUTHOR: Zeynalova, A. A.

REF SOURCE: Sb. Nekotoryye vopr. funkts. analiza i yego primeneniya. Baku, AN AzerbSSR, 1965, 52-63

TITLE: On the completeness of a system of eigen- and adjoint functions of a non-self-conjugate differential operator generated by a differential expression with a retarding argument

SOURCE: Ref. zh. Matematika, Abs. 1B266

TOPIC TAGS: differential operator, mathematic method, *function theory*

TRANSLATION: For a non-selfconjugate differential operator  $L$ :

$$l(y) = -y''(x) + q(x)y(x) + r(x)y(x - \alpha(x)), \quad y(0) = 0 \\ (0 < x < \infty, x - \alpha(x) > 0),$$

with a real function  $q(x)$  and complex-valued  $r(x)$ , the following sufficient conditions are introduced for the completeness in  $L^2(0, \infty)$  of the system of eigen- and adjoint functions:

$$\lim_{x \rightarrow +\infty} \frac{q(x)}{x^2} > c > 0$$

Card 1/2

UDC: 517.949.2

L 45593-66

ACC NR: AR6017336

for a certain  $k > 0$ ; the operator  $Ry=r(x)y(x-a(x))$  is given in the form of the square of a certain operator

$$\sqrt{R}y=r_1(x)y(x-a_1(x)), \quad a_1'(x) < 0 < 1, \quad x-a_1(x) \rightarrow +\infty (x \rightarrow \infty);$$

the functions  $q(x)$  and  $r_1(x)$  are bounded in each finite interval;

$$\lim_{x \rightarrow \infty} \frac{|r_1(\psi(x))|^2 \psi'(x)}{q(x)} = 0, \quad \lim_{x \rightarrow \infty} \frac{|r_1(x)|^2 (1-a_1'(x))}{q(x)} = 0,$$

where  $\psi(x)$  is a function inverse to  $x-a_1(x)$ . In the case  $q(x) = x^k$ ,  $k > 2$ , the spectrum of the operator generated by the expression  $L(y)$  and by the boundary condition  $y'(0)-\theta y(0) = 0$  is discrete and its resolvent is a wholly continuous operator, and the system of eigen- and adjoint functions is complete in  $L^2(0, \infty)$  if  $r(x)$  is measurable and essentially bounded on  $(0, \infty)$ ,  $a(x) \geq 0$ ,  $a'(x) \leq 0 < 1$ ,  $x-a(x) \rightarrow +\infty$  for  $x \rightarrow \infty$ , the derivative of the function inverse to  $x-a(x)$  is measurable and essentially bounded. Yu. Valitskiy.

SUB CODE: 12/

~~SUBM DATE:~~ none

Card 2/2-MJ

KULIYEV, A.M.; ORUDZHEVA, I.M.; ZEYNALOVA, G.A.; AKHMED-ZADE, D.A.;  
ATAL'YAN, A.A.; LEVSHINA, A.M.; SADYKHOV, K.I.

Studies in the synthesis and use of additives for lubricating  
oils. Sbor.trud.AzNII NP no.2:207-224 Ag '58.

(MIRA 12:6)

(Lubrication and lubricants--Additives)

26198

S/081/61/000/012/026/028  
B103/B202

15.6600  
11.9700

AUTHORS:

Kuliyev, A. M., Orudzheva, I. M., Zeynalova, G. A., Atal'yan, A. A., Akhmed-Zade, D. A., Levshina, A. M., Sadykhov, K. I., Abdinova, A. B.

TITLE:

Synthesis of organic compounds containing various functional groups and their applications to improve the quality of lubricating oils

PERIODICAL:

Referativnyy zhurnal. Khimiya, no. 12, 1961, 530, abstract 12M225. (Tr. 1-y Konferentsii zakavkazsk. un-tov. Baku, Azerb. un-t, 1959, 111-123)

TEXT: The authors present the results of research work which has been conducted for many years in the Azerbaydzhanskaya SSR concerning the synthesis and the choice of additives to lubricating oils. The following compounds were synthesized and their properties were studied: mono-, di-, and trialkyl derivatives of benzene, naphthalene, tetraline, anthracene, and phenanthrene; alkyl benzene-, alkyl naphthalene-, alkyl phenol-, and alkyl tetraline sulfonates of Ca, Ba, Sr, Pb, and Cu; mono- and dialkyl phenols; mono- and

Card 1/2

26198  
S/081/61/000/012/026/C28  
B103/B202

Synthesis of organic compounds ...

disulfides of alkyl phenols and their Ba and Ca salts; tri-(alkylphenol)-phosphites and their mono- and disulfide derivatives; mono- and dialkyl ureas; condensation products of urea with aldehydes and alkyl phenols. The depressor АЗНИИ (Aznii) (dialkyl naphthalene, in which alkyls originate from chlorinated paraffin) from the year 1947, detergents for motor oils Aznii-4 from the year 1949 and Aznii-5 (both sulfanates) were industrially used. The multifunctional additives to the motor oils Aznii-7 and Aznii-8 (both salts of the alkyl phenol sulfides) and an additive stabilizing the mineral oil obtained by condensation of urea with aldehyde and alkyl phenol, were recommended for introduction into industry. [Abstracter's note: Complete translation.]

Card 2/2

KULIYEV, A.M.; ZEYNALOVA, G.A.; ABDINOVA, A.B.

Synthesis of the products of condensation of carbamide and  
alkyl phenols with formaldehyde and study of their stabilizing  
action on lubricating oils. Azerb.khim.zhur. no.2:29-38  
'59. (MIRA 13:6)

(Urea) (Phenol condensation products) (Formaldehyde)  
(Lubrication and lubricants)

KULIYEV, A.M.; ABDINOVA, A.B.; ZEYNALOVA, G.A.; ORUDZHEVA, I.M.

Effect of urea derivatives on the oxidation resistance of  
lubricating oils. Azerb. khim.zhur. no.4:15-20 '59. (MIRA 14:9)  
(Lubrication and lubricants)  
(Urea)

KULIYEV, A.M.; ~~MEYDALOVA~~, G.A.; CRUDZHEVA, I.M.

Condensation of alkylphenols with aldehydes and ammonia.  
Azerb. khim.zhur. no.4:93-100 '59. (MIRA 14:9)  
(Phenol condensation products)  
(Aldehydes) (Ammonia)

36933  
S/081/62/000/007/025/033  
B168/B101

11.9700  
AUTHORS:

Kuliyev, A. M., Zeynalova, G. A., Abdinova, A. B.

TITLE:

Synthesis and examination of anti-oxidant additives for machine and other oils

PERIODICAL:

Referativnyy zhurnal. Khimiya, no. 7, 1962, 548, abstract 7M183 (Sb. "Prisadki k maslam i toplivam". M., Gostoptekhizdat, 1961, 102-109)

TEXT: Using the VTI method, the authors investigated the oxidation resistance of mineral oils (transformer oil MK-6 (MK-6) and MK-8 (MK-8)) containing the following synthetic additives: condensation products (1) of 1 mole urea, of 2 moles  $\text{CH}_2\text{O}$  and of 1 mole p-alkylphenol (alkyls:  $\text{n-C}_3\text{H}_7$ ,  $\text{tert-C}_4\text{H}_9$ ,  $\text{tert-C}_5\text{H}_{11}$ ,  $\text{sec-C}_4\text{H}_9$ ,  $\text{sec-C}_6\text{H}_{13}$ ,  $\text{sec-C}_8\text{H}_{17}$ ,  $\text{tert-C}_8\text{H}_{17}$ ,  $\text{C}_9\text{H}_{19}$ ,  $\text{n-C}_{16}\text{H}_{33}$  of the olefins from the 100-180°C fraction of thermal cracking), condensation products (2) of furfuralamide with different alkylphenols and condensation products of acetaldehyde ammonia with various alkylphenols. The first condensation product, obtained from the 100-180°C fraction of Card 1/2

Synthesis and examination of ...

S/081/62/000/007/025/033  
B168/B101

thermal cracking (additive азний-11 (aznii-11)) proved an effective anti-oxidant (at a concentration of 0.1%); at a test temperature of 120°C this product was equal in effectiveness to ionol and p-hydroxydiphenylamine and at 150 and 170°C was superior to ionol. The second condensation product, obtained from industrial acrylphenol (additive азний-11ф (aznii-11f)), was also found to be an effective anti-oxidant; it was more effective than ionol (at test temperatures of 120 and 150°C). [Abstracter's note: Complete translation.]

Card 2/2

KULIYEV, A.M.; SULEYMANOVA, F.G.; SADYKHOV, K.I.; ZEYNALOVA, G.A.; EL'OVICH,  
I.I.; KHIGER, V.F.; BASHAYEV, V. Ye.; MUSHAILOV, A. Ye.

Improving the quality of motor oils from Baku petroleum. Khim.  
i tekhn. topl. i masel 9 no.6:35-39 Je'64 (MIRA 17:7)

1. Institut neftskhimicheskikh protsessov AN AzerSSR.

KULIYEV, A.M.; RASULOVA, M.A.; ZEYNALOVA, G.A.

Condensation of alkylphenols with formaldehyde and o-toluidine.  
Azerb. khim. zhur. no. 2:3-7 '65. (MIRA 18:12)

1. Institut neftekhimicheskikh protsessov AN AzerSSR. Submitted  
Jan. 4, 1965.

L 17698-66 ENT(m)/T DJ  
 ACC NR: AP6007671 (A) SOURCE CODE: UR/0413/66/000/003/0043/0043  
 INVENTOR: Kuliyev, A. M.; Zeynalova, G. A. K.; Suleymanova, F. G.; Kerimova, E. B.-A. K.; Agakishiyeva, A. M.-A. K.; Khiger, V. F.  
 ORG: none  
 TITLE: Preparative method for a multipurpose additive to motor oils. Class 23, No. 178437 [announced by Institute of Petrochemical Processes, AN Azerbaydzhan SSR (Institut neftekhimicheskikh protsessov AN Azerbaydzhanskoy SSR)]  
 SOURCE: Izobreteniya, promyshlennyye obraztsy, tovarnyye znaki, no. 3, 1966, 43  
 TOPIC TAGS: lubricant additive, lubricating oil  
 ABSTRACT: An Author Certificate has been issued for a preparative method for an improved multipurpose additive to motor oils. The method involves treatment with phosphorus pentoxide of an alkylphenol-formaldehyde-ammonia condensation product. [EO]  
 SUB CODE: 21/ SUBM DATE: 27Oct64/ ATD PRESS: 4210  
 Card 1/1 UDC: 621.892.86:546.185

L 05002-67 EWT(m)/T DJ

ACC NR: AR6031161 (A,N) SOURCE CODE: UR/0081/66/000/015/P038/P038

AUTHOR: Kuliyev, A. M.; Abdullayev, A. G.; Zeynalova, G. A.

TITLE: Synthesis of pour point depressants<sup>y</sup> by condensation of alkyl-phenols and alkyl- $\beta$ -naphthols with formaldehyde

SOURCE: Ref. zh. Khimiya, Part II, Abs. 15P249

REF SOURCE: Uch. zap. Azerb. un-t. Ser. khim. n., no. 4, 1965, 47-52

TOPIC TAGS: pour point depressant, automotive oil

ABSTRACT: Pour point depressants have been synthesized by condensation of mono- or dicetyl derivatives of phenol and  $\beta$ -naphthol with formaldehyde. The products contained different numbers of aromatic rings linked by methylene groups. The effectiveness of the depressants was tested in automotive oils. It was shown that the condensation products depress the pour point of the oils more than the respective initial alkyl derivatives.

[BO]

SUB CODE: 11,07/SUBM DATE: none

Card 1/1

L 14574-66 ENT(m)/f DJ

ACC NR: AP6005336

SOURCE CODE: UR/0413/66/000/001/0074/0074 41

INVENTOR: Papok, K. K.; Kreyn, S. E.; Vipper, A. B.; Zuseva, B. S.; Garzanov, G. Ye.  
Vinner, G. G.; Dobkin, I. Ye.; Afanas'yev, I. D.; Rogachevskaya, T. A.; Somov, V. A.;  
Botkin, P. P.; Kuli'yev, A. M.; Zeynalova, G. A.

ORG: none

112,14  
TITLE: Preparation of motor oil. Class 23, No. 177579

SOURCE: Izobreteniya, promyshlennyye obraztsy, tovarnyye znaki, no. 1, 1966, 74

TOPIC TAGS: motor oil, antiwear additive, detergent additive

ABSTRACT: An Author Certificate has been issued for a preparative method for motor oil, involving addition of a detergent and an antiwear additive to the oil base. The method provides for the use of an alkyl-formaldehyde condensation product and of a dialkyl dithiophosphate based on C<sub>12</sub>-C<sub>16</sub> alcohols as the additives. [BO]

SUB CODE: 11/ SUBM DATE: 16Apr64/ ATD PRESS: 4/90

FW  
Card 1/1

UDC: 621.892.8

L 1897-66

ACCESSION NR: AF5021584

UR/0286/65/000/013/0055/0055

665.4/5

AUTHOR: Kulihev, A. M. o.; Suleymanova, F. G.; El'ovich, I. I.; Zeynalova, G. A. E.;  
Mushailov, A. Ye.

TITLE: Preparative method for motor oils. Class 23, No. 172446

SOURCE: Byulleten' izobreteniy i tovarnykh znakov, no. 13, 1965, 55

TOPIC TAGS: lubricating oil, lubricant additive, antiwear additive

ABSTRACT: An Author Certificate has been issued for a preparative method for motor oils, involving addition of the following additives to an oil base: an alkylphenol-formaldehyde condensation product [unspecified], and sulfonate, antiwear, and de-foamant additives. To improve the service properties of the oil, the antiwear additive used is thiochlorostyrehe [sic].

[SM]

ASSOCIATION: Institut neftekhimicheskikh protsessov im. Yu. G. Mameduliyeva  
AN Azerbaydzhanskoy SSR (Institute of Petrochemical Processes, AN Azerbaydzhan SSR)

SUBMITTED: 03Mar64

NO REF SOV: 000

Card 1/1 *mlb*

ENCL: 00

OTHER: 000

SUB CODE: FP

ATD PREIS: 4588

ACCESSION NR: AT4001187

S/3030/63/000/000/0116/0137

AUTHORS: Kuliyeu, A. M.; Orudzheva, I. M.; Zeynalova, G. A.;  
Sady\*khov, K. I.

TITLE: Synthesis and use of new additives for motor and power  
plant oils

SOURCE: Uluchsheniye kachestva i sovershenstvovaniye proizvodstva  
smazochny\*kh masel. Trudy\* Vses. soveshchaniya. Moscow,  
1963, 116-137

TOPIC TAGS: motor oil, lubricant, antioxidant, additive, SB-3,  
BFK-1, phosphorus containing additive, sulfonic acid,  
alkylarene, alkaline earth salt, sulfonic additive,  
sulfonic acid, bisphenols, alkylphenols, formaldehyde,  
polyfunctional additive, azn11-11, MK-6, MK-11, fur-  
fural, diphenylamine.4-hydroxy-, acetaldehyde,  
ammonia, phenol.p-tert-octyl-, 1-naphthylamine.N-  
phenyl-, carbamide

Card 1/43

ACCESSION NR: AT4001187

ABSTRACT: The results of synthesis and testing of new and prospective oil additives developed in the INKhP are summarized. A series of alkylaromatic sulfonates ( $C_1 - C_{16}$ ; benzene, naphthalene, tetralin, phenol and chlorophenyl) were synthesized and characterized; the relationship between their detergative properties and their solubility, molecular weight, metal content, side chain length, aromatic nucleus and presence of functional groups was studied. The stability, detergent and corrosive properties of some of these compounds--SB-3, PMS-19, NG-102 were laboratory tested; SB-3 gave better results in wear and deposit formation after long term testing than AZNII-8 or TsiATIM-339. A study of Ba, Ca, and Zn salts of alkylphenol-formaldehyde condensation products indicated the Ba salt, BFK-1, to have the best detergent, anti-corrosion and antideposit properties, its effectiveness approaching that of monofunctional phosphorus-containing additives. For antioxidants, a new series of compounds was synthesized based on alkylated ureas. AZNII-11, a condensate of alkylphenol with urea and formaldehyde is especially interesting. Condensates of alkylphenols (p-tert.-butyl, -amyl, -octyl) with aldehydes (furfuralde-

Card 2/43

ACCESSION NR: AT4001187

hyde, acetaldehyde) and ammonia yielded an especially promising AZNII-11f (substituted alkylphenol-furfuramide). About 1% of this gave smaller amounts of deposit, lower acid number of the oil and better stabilization than ionol. Urotropine-formamide condensates were investigated. Optimum synthesis conditions for additive No. 17, p-tert. octylphenol-urotropine-formaldehyde condensate were studied. 0.1% of No. 17 in MK-8 oil gave as much antioxidant protection as ionol, and was more effective than p-hydroxydiphenylamine, as tested by the VTI method at 140° and 200°C. Polyfunctional additives were prepared from mixtures of alkyl phenolates, phenylsulfonates and phenolate-P<sub>2</sub>S<sub>5</sub> reaction products. Mixtures of SB-3 and VNII NP-354, VNII NP-353, Zn salt of S- and P-containing compounds, or BFK-1, tested on transport engines YaAz-204 and KDM-46, showed the SB-3 + BFK-1 combination most effective. SB-3 + AZNII-7 (1:1) offered better protection in a S-containing AS-10 oil than either component alone. Orig. art. has: 16 Tables and 5 Equations.

ASSOCIATION: None

Card 3/4 3

1. 12401-63  
RM/BJ/WW/MN

ENP(j)/EPF(c)/EWT(m)/BDS AFFTC/ASD/APGC Pci-4/Pr-4

ACCESSION NR: AP3001668

S/0065/63/000/006/0024/0028

AUTHOR: Kuliyev, A. M.; Zeynalova, G. A.; Abdinova, A. B.; Kafarova, U. Ya.; Suleymanova, F. G.; Mamedov, M. A. 77  
75

TITLE: Preparation of multifunctional additive based on condensation products of alkylphenol with formaldehyde 1

SOURCE: Khimiya i tekhnologiya topliv i masel, no. 6, 1963, 24-28

TOPIC TAGS: Fuel additives, physicochemical properties, formaldehyde, alkylphenol

ABSTRACT: The investigation of a multifunctional additive by the condensation reaction of formaldehyde with alkylphenol and its comparison to other existing additives has been completed. In the process of investigation it was established that the use of highly effective multifunctional additives in fuels is more economical and since all the functional groups are concentrated into one molecule, the elimination of these additives is rapid as a result of its chemical interaction with the metals at contact or adsorption to the metal surface. The composition of the synthesized barium salt of the condensation alkylphenol and formaldehyde products (BPK) with other combination additives showed that the BPK additive is more superior to other additives. It prevents corrosion of the

Card 1/2

L 12401-63

ACCESSION NR: AP3001668

diesel fuels containing as much as 1.2% of sulfur in their composition and to a large extent improves its wetting ability. An industrial production of BFK based on the original data has been proposed. Orig. art. has: 5 tables. 2

ASSOCIATION: INKhP AN AzSSR

SUBMITTED: 00

DATE ACQ: 08Jul63

ENCL: 00

SUB CODE: none

NO REF SQV: 000

OTHER: 000

Card 2/2

KULIYEV, A.M.; ZEYNALOVA, G.A.; SADYKHOV, K.I.

Synthesis of additives increasing the stability of lubricants.  
Sbor.trud.Az NII NP no.4:173-182 '59. (MIRA 15:5)  
(Lubrication and lubricants—Additives)

NEGREYEV, V.F.; KULIYEV, A.M.; MAMEDOV, I.A.; SADYKHOV, K.I.; ZEYNALOV, S.D.;  
ABDULLAYEVA, G.M.; ZEYNALOVA, K.A.

Investigating some surface-active by-products of the industry of  
oil additives as corrosion inhibitors. Azerb.khim.zhur. no.6:  
57-64 '63. (MIRA 17:3)

RPL/ASD(m)-3 RM/

...the copolymerization of divinylbenzenes  
...in emulsi-

ying agent

SOURCE: Azerbaydzhanskoy khimicheskoy zhurnal, no. 1, 1964, 37-42

TOPIC TAGS: copolymerization, emulsifier, polyalkylbenzenesulfonate, divinyl-  
benzene, cumene hydroperoxide, ion exchange resin, cumene hydroperoxide



1. 1964-1965. 2. 1966-1967. 3. 1968-1969. 4. 1970-1971. 5. 1972-1973. 6. 1974-1975. 7. 1976-1977. 8. 1978-1979. 9. 1980-1981. 10. 1982-1983. 11. 1984-1985. 12. 1986-1987. 13. 1988-1989. 14. 1990-1991. 15. 1992-1993. 16. 1994-1995. 17. 1996-1997. 18. 1998-1999. 19. 2000-2001. 20. 2002-2003. 21. 2004-2005. 22. 2006-2007. 23. 2008-2009. 24. 2010-2011. 25. 2012-2013. 26. 2014-2015. 27. 2016-2017. 28. 2018-2019. 29. 2020-2021. 30. 2022-2023. 31. 2024-2025. 32. 2026-2027. 33. 2028-2029. 34. 2030-2031. 35. 2032-2033. 36. 2034-2035. 37. 2036-2037. 38. 2038-2039. 39. 2040-2041. 40. 2042-2043. 41. 2044-2045. 42. 2046-2047. 43. 2048-2049. 44. 2050-2051. 45. 2052-2053. 46. 2054-2055. 47. 2056-2057. 48. 2058-2059. 49. 2060-2061. 50. 2062-2063. 51. 2064-2065. 52. 2066-2067. 53. 2068-2069. 54. 2070-2071. 55. 2072-2073. 56. 2074-2075. 57. 2076-2077. 58. 2078-2079. 59. 2080-2081. 60. 2082-2083. 61. 2084-2085. 62. 2086-2087. 63. 2088-2089. 64. 2090-2091. 65. 2092-2093. 66. 2094-2095. 67. 2096-2097. 68. 2098-2099. 69. 2100-2101. 70. 2102-2103. 71. 2104-2105. 72. 2106-2107. 73. 2108-2109. 74. 2110-2111. 75. 2112-2113. 76. 2114-2115. 77. 2116-2117. 78. 2118-2119. 79. 2120-2121. 80. 2122-2123. 81. 2124-2125. 82. 2126-2127. 83. 2128-2129. 84. 2130-2131. 85. 2132-2133. 86. 2134-2135. 87. 2136-2137. 88. 2138-2139. 89. 2140-2141. 90. 2142-2143. 91. 2144-2145. 92. 2146-2147. 93. 2148-2149. 94. 2150-2151. 95. 2152-2153. 96. 2154-2155. 97. 2156-2157. 98. 2158-2159. 99. 2160-2161. 100. 2162-2163. 101. 2164-2165. 102. 2166-2167. 103. 2168-2169. 104. 2170-2171. 105. 2172-2173. 106. 2174-2175. 107. 2176-2177. 108. 2178-2179. 109. 2180-2181. 110. 2182-2183. 111. 2184-2185. 112. 2186-2187. 113. 2188-2189. 114. 2190-2191. 115. 2192-2193. 116. 2194-2195. 117. 2196-2197. 118. 2198-2199. 119. 2200-2201. 120. 2202-2203. 121. 2204-2205. 122. 2206-2207. 123. 2208-2209. 124. 2210-2211. 125. 2212-2213. 126. 2214-2215. 127. 2216-2217. 128. 2218-2219. 129. 2220-2221. 130. 2222-2223. 131. 2224-2225. 132. 2226-2227. 133. 2228-2229. 134. 2230-2231. 135. 2232-2233. 136. 2234-2235. 137. 2236-2237. 138. 2238-2239. 139. 2240-2241. 140. 2242-2243. 141. 2244-2245. 142. 2246-2247. 143. 2248-2249. 144. 2250-2251. 145. 2252-2253. 146. 2254-2255. 147. 2256-2257. 148. 2258-2259. 149. 2260-2261. 150. 2262-2263. 151. 2264-2265. 152. 2266-2267. 153. 2268-2269. 154. 2270-2271. 155. 2272-2273. 156. 2274-2275. 157. 2276-2277. 158. 2278-2279. 159. 2280-2281. 160. 2282-2283. 161. 2284-2285. 162. 2286-2287. 163. 2288-2289. 164. 2290-2291. 165. 2292-2293. 166. 2294-2295. 167. 2296-2297. 168. 2298-2299. 169. 2300-2301. 170. 2302-2303. 171. 2304-2305. 172. 2306-2307. 173. 2308-2309. 174. 2310-2311. 175. 2312-2313. 176. 2314-2315. 177. 2316-2317. 178. 2318-2319. 179. 2320-2321. 180. 2322-2323. 181. 2324-2325. 182. 2326-2327. 183. 2328-2329. 184. 2330-2331. 185. 2332-2333. 186. 2334-2335. 187. 2336-2337. 188. 2338-2339. 189. 2340-2341. 190. 2342-2343. 191. 2344-2345. 192. 2346-2347. 193. 2348-2349. 194. 2350-2351. 195. 2352-2353. 196. 2354-2355. 197. 2356-2357. 198. 2358-2359. 199. 2360-2361. 200. 2362-2363. 201. 2364-2365. 202. 2366-2367. 203. 2368-2369. 204. 2370-2371. 205. 2372-2373. 206. 2374-2375. 207. 2376-2377. 208. 2378-2379. 209. 2380-2381. 210. 2382-2383. 211. 2384-2385. 212. 2386-2387. 213. 2388-2389. 214. 2390-2391. 215. 2392-2393. 216. 2394-2395. 217. 2396-2397. 218. 2398-2399. 219. 2400-2401. 220. 2402-2403. 221. 2404-2405. 222. 2406-2407. 223. 2408-2409. 224. 2410-2411. 225. 2412-2413. 226. 2414-2415. 227. 2416-2417. 228. 2418-2419. 229. 2420-2421. 230. 2422-2423. 231. 2424-2425. 232. 2426-2427. 233. 2428-2429. 234. 2430-2431. 235. 2432-2433. 236. 2434-2435. 237. 2436-2437. 238. 2438-2439. 239. 2440-2441. 240. 2442-2443. 241. 2444-2445. 242. 2446-2447. 243. 2448-2449. 244. 2450-2451. 245. 2452-2453. 246. 2454-2455. 247. 2456-2457. 248. 2458-2459. 249. 2460-2461. 250. 2462-2463. 251. 2464-2465. 252. 2466-2467. 253. 2468-2469. 254. 2470-2471. 255. 2472-2473. 256. 2474-2475. 257. 2476-2477. 258. 2478-2479. 259. 2480-2481. 260. 2482-2483. 261. 2484-2485. 262. 2486-2487. 263. 2488-2489. 264. 2490-2491. 265. 2492-2493. 266. 2494-2495. 267. 2496-2497. 268. 2498-2499. 269. 2500-2501. 270. 2502-2503. 271. 2504-2505. 272. 2506-2507. 273. 2508-2509. 274. 2510-2511. 275. 2512-2513. 276. 2514-2515. 277. 2516-2517. 278. 2518-2519. 279. 2520-2521. 280. 2522-2523. 281. 2524-2525. 282. 2526-2527. 283. 2528-2529. 284. 2530-2531. 285. 2532-2533. 286. 2534-2535. 287. 2536-2537. 288. 2538-2539. 289. 2540-2541. 290. 2542-2543. 291. 2544-2545. 292. 2546-2547. 293. 2548-2549. 294. 2550-2551. 295. 2552-2553. 296. 2554-2555. 297. 2556-2557. 298. 2558-2559. 299. 2560-2561. 300. 2562-2563. 301. 2564-2565. 302. 2566-2567. 303. 2568-2569. 304. 2570-2571. 305. 2572-2573. 306. 2574-2575. 307. 2576-2577. 308. 2578-2579. 309. 2580-2581. 310. 2582-2583. 311. 2584-2585. 312. 2586-2587. 313. 2588-2589. 314. 2590-2591. 315. 2592-2593. 316. 2594-2595. 317. 2596-2597. 318. 2598-2599. 319. 2600-2601. 320. 2602-2603. 321. 2604-2605. 322. 2606-2607. 323. 2608-2609. 324. 2610-2611. 325. 2612-2613. 326. 2614-2615. 327. 2616-2617. 328. 2618-2619. 329. 2620-2621. 330. 2622-2623. 331. 2624-2625. 332. 2626-2627. 333. 2628-2629. 334. 2630-2631. 335. 2632-2633. 336. 2634-2635. 337. 2636-2637. 338. 2638-2639. 339. 2640-2641. 340. 2642-2643. 341. 2644-2645. 342. 2646-2647. 343. 2648-2649. 344. 2650-2651. 345. 2652-2653. 346. 2654-2655. 347. 2656-2657. 348. 2658-2659. 349. 2660-2661. 350. 2662-2663. 351. 2664-2665. 352. 2666-2667. 353. 2668-2669. 354. 2670-2671. 355. 2672-2673. 356. 2674-2675. 357. 2676-2677. 358. 2678-2679. 359. 2680-2681. 360. 2682-2683. 361. 2684-2685. 362. 2686-2687. 363. 2688-2689. 364. 2690-2691. 365. 2692-2693. 366. 2694-2695. 367. 2696-2697. 368. 2698-2699. 369. 2700-2701. 370. 2702-2703. 371. 2704-2705. 372. 2706-2707. 373. 2708-2709. 374. 2710-2711. 375. 2712-2713. 376. 2714-2715. 377. 2716-2717. 378. 2718-2719. 379. 2720-2721. 380. 2722-2723. 381. 2724-2725. 382. 2726-2727. 383. 2728-2729. 384. 2730-2731. 385. 2732-2733. 386. 2734-2735. 387. 2736-2737. 388. 2738-2739. 389. 2740-2741. 390. 2742-2743. 391. 2744-2745. 392. 2746-2747. 393. 2748-2749. 394. 2750-2751. 395. 2752-2753. 396. 2754-2755. 397. 2756-2757. 398. 2758-2759. 399. 2760-2761. 400. 2762-2763. 401. 2764-2765. 402. 2766-2767. 403. 2768-2769. 404. 2770-2771. 405. 2772-2773. 406. 2774-2775. 407. 2776-2777. 408. 2778-2779. 409. 2780-2781. 410. 2782-2783. 411. 2784-2785. 412. 2786-2787. 413. 2788-2789. 414. 2790-2791. 415. 2792-2793. 416. 2794-2795. 417. 2796-2797. 418. 2798-2799. 419. 2800-2801. 420. 2802-2803. 421. 2804-2805. 422. 2806-2807. 423. 2808-2809. 424. 2810-2811. 425. 2812-2813. 426. 2814-2815. 427. 2816-2817. 428. 2818-2819. 429. 2820-2821. 430. 2822-2823. 431. 2824-2825. 432. 2826-2827. 433. 2828-2829. 434. 2830-2831. 435. 2832-2833. 436. 2834-2835. 437. 2836-2837. 438. 2838-2839. 439. 2840-2841. 440. 2842-2843. 441. 2844-2845. 442. 2846-2847. 443. 2848-2849. 444. 2850-2851. 445. 2852-2853. 446. 2854-2855. 447. 2856-2857. 448. 2858-2859. 449. 2860-2861. 450. 2862-2863. 451. 2864-2865. 452. 2866-2867. 453. 2868-2869. 454. 2870-2871. 455. 2872-2873. 456. 2874-2875. 457. 2876-2877. 458. 2878-2879. 459. 2880-2881. 460. 2882-2883. 461. 2884-2885. 462. 2886-2887. 463. 2888-2889. 464. 2890-2891. 465. 2892-2893. 466. 2894-2895. 467. 2896-2897. 468. 2898-2899. 469. 2900-2901. 470. 2902-2903. 471. 2904-2905. 472. 2906-2907. 473. 2908-2909. 474. 2910-2911. 475. 2912-2913. 476. 2914-2915. 477. 2916-2917. 478. 2918-2919. 479. 2920-2921. 480. 2922-2923. 481. 2924-2925. 482. 2926-2927. 483. 2928-2929. 484. 2930-2931. 485. 2932-2933. 486. 2934-2935. 487. 2936-2937. 488. 2938-2939. 489. 2940-2941. 490. 2942-2943. 491. 2944-2945. 492. 2946-2947. 493. 2948-2949. 494. 2950-2951. 495. 2952-2953. 496. 2954-2955. 497. 2956-2957. 498. 2958-2959. 499. 2960-2961. 500. 2962-2963. 501. 2964-2965. 502. 2966-2967. 503. 2968-2969. 504. 2970-2971. 505. 2972-2973. 506. 2974-2975. 507. 2976-2977. 508. 2978-2979. 509. 2980-2981. 510. 2982-2983. 511. 2984-2985. 512. 2986-2987. 513. 2988-2989. 514. 2990-2991. 515. 2992-2993. 516. 2994-2995. 517. 2996-2997. 518. 2998-2999. 519. 3000-3001. 520. 3002-3003. 521. 3004-3005. 522. 3006-3007. 523. 3008-3009. 524. 3010-3011. 525. 3012-3013. 526. 3014-3015. 527. 3016-3017. 528. 3018-3019. 529. 3020-3021. 530. 3022-3023. 531. 3024-3025. 532. 3026-3027. 533. 3028-3029. 534. 3030-3031. 535. 3032-3033. 536. 3034-3035. 537. 3036-3037. 538. 3038-3039. 539. 3040-3041. 540. 3042-3043. 541. 3044-3045. 542. 3046-3047. 543. 3048-3049. 544. 3050-3051. 545. 3052-3053. 546. 3054-3055. 547. 3056-3057. 548. 3058-3059. 549. 3060-3061. 550. 3062-3063. 551. 3064-3065. 552. 3066-3067. 553. 3068-3069. 554. 3070-3071. 555. 3072-3073. 556. 3074-3075. 557. 3076-3077. 558. 3078-3079. 559. 3080-3081. 560. 3082-3083. 561. 3084-3085. 562. 3086-3087. 563. 3088-3089. 564. 3090-3091. 565. 3092-3093. 566. 3094-3095. 567. 3096-3097. 568. 3098-3099. 569. 3100-3101. 570. 3102-3103. 571. 3104-3105. 572. 3106-3107. 573. 3108-3109. 574. 3110-3111. 575. 3112-3113. 576. 3114-3115. 577. 3116-3117. 578. 3118-3119. 579. 3120-3121. 580. 3122-3123. 581. 3124-3125. 582. 3126-3127. 583. 3128-3129. 584. 3130-3131. 585. 3132-3133. 586. 3134-3135. 587. 3136-3137. 588. 3138-3139. 589. 3140-3141. 590. 3142-3143. 591. 3144-3145. 592. 3146-3147. 593. 3148-3149. 594. 3150-3151. 595. 3152-3153. 596. 3154-3155. 597. 3156-3157. 598. 3158-3159. 599. 3160-3161. 600. 3162-3163. 601. 3164-3165. 602. 3166-3167. 603. 3168-3169. 604. 3170-3171. 605. 3172-3173. 606. 3174-3175. 607. 3176-3177. 608. 3178-3179. 609. 3180-3181. 610. 3182-3183. 611. 3184-3185. 612. 3186-3187. 613. 3188-3189. 614. 3190-3191. 615. 3192-3193. 616. 3194-3195. 617. 3196-3197. 618. 3198-3199. 619. 3200-3201. 620. 3202-3203. 621. 3204-3205. 622. 3206-3207. 623. 3208-3209. 624. 3210-3211. 625. 3212-3213. 626. 3214-3215. 627. 3216-3217. 628. 3218-3219. 629. 3220-3221. 630. 3222-3223. 631. 3224-3225. 632. 3226-3227. 633. 3228-3229. 634. 3230-3231. 635. 3232-3233. 636. 3234-3235. 637. 3236-3237. 638. 3238-3239. 639. 3240-3241. 640. 3242-3243. 641. 3244-3245. 642. 3246-3247. 643. 3248-3249. 644. 3250-3251. 645. 3252-3253. 646. 3254-3255. 647. 3256-3257. 648. 3258-3259. 649. 3260-3261. 650. 3262-3263. 651. 3264-3265. 652. 3266-3267. 653. 3268-3269. 654. 3270-3271. 655. 3272-3273. 656. 3274-3275. 657. 3276-3277. 658. 3278-3279. 659. 3280-3281. 660. 3282-3283. 661. 3284-3285. 662. 3286-3287. 663. 3288-3289. 664. 3290-3291. 665. 3292-3293. 666. 3294-3295. 667. 3296-3297. 668. 3298-3299. 669. 3300-3301. 670. 3302-3303. 671. 3304-3305. 672. 3306-3307. 673. 3308-3309. 674. 3310-3311. 675. 3312-3313. 676. 3314-3315. 677. 3316-3317. 678. 3318-3319. 679. 3320-3321. 680. 3322-3323. 681. 3324-3325. 682. 3326-3327. 683. 3328-3329. 684. 3330-3331. 685. 3332-3333. 686. 3334-3335. 687. 3336-3337. 688. 3338-3339. 689. 3340-3341. 690. 3342-3343. 691. 3344-3345. 692. 3346-3347. 693. 3348-3349. 694. 3350-3351. 695. 3352-3353. 696. 3354-3355. 697. 3356-3357. 698. 3358-3359. 699. 3360-3361. 700. 3362-3363. 701. 3364-3365. 702. 3366-3367. 703. 3368-3369. 704. 3370-3371. 705. 3372-3373. 706. 3374-3375. 707. 3376-3377. 708. 3378-3379. 709. 3380-3381. 710. 3382-3383. 711. 3384-3385. 712. 3386-3387. 713. 3388-3389. 714. 3390-3391. 715. 3392-3393. 716. 3394-3395. 717. 3396-3397. 718. 3398-3399. 719. 3400-3401. 720. 3402-3403. 721. 3404-3405. 722. 3406-3407. 723. 3408-3409. 724. 3410-3411. 725. 3412-3413. 726. 3414-3415. 727. 3416-3417. 728. 3418-3419. 729. 3420-3421. 730. 3422-3423. 731. 3424-3425. 732. 3426-3427. 733. 3428-3429. 734. 3430-3431. 735. 3432-3433. 736. 3434-3435. 737. 3436-3437. 738. 3438-3439. 739. 3440-3441. 740. 3442-3443. 741. 3444-3445. 742. 3446-3447. 743. 3448-3449. 744. 3450-3451. 745. 3452-3453. 746. 3454-3455. 747. 3456-3457. 748. 3458-3459. 749. 3460-3461. 750. 3462-3463. 751. 3464-3465. 752. 3466-3467. 753. 3468-3469. 754. 3470-3471. 755. 3472-3473. 756. 3474-3475. 757. 3476-3477. 758. 3478-3479. 759. 3480-3481. 760. 3482-3483. 761. 3484-3485. 762. 3486-3487. 763. 3488-3489. 764. 3490-3491. 765. 3492-3493. 766. 3494-3495. 767. 3496-3497. 768. 3498-3499. 769. 3500-3501. 770. 3502-3503. 771. 3504-3505. 772. 3506-3507. 773.

Card 1/2

1. 1. 1.

2. 2. 2.

3. 3. 3.

4. 4. 4.

5. 5. 5.

6. 6. 6.

7. 7. 7.

Card 2/2

PETROVA, Z.G.; BABAYEVA, A.A.; SADYKHOVA, S.A.; ZEYNALOVA, K.G.

Preparation of sulfopolymers based on divinylbenzene and styrene,  
and study of their physicochemical characteristics. Azerb. khim.  
zhur. no.3:83-89 '64. (MIRA 18:5)

PETROVA, Z.G.; BABAYEVA, A.A.; SADYKHOVA, S.A.; ZEYNALOVA, K.G.;  
MIRZOYEVA, O.I.; ZAMANOVA, E.Yu.

Study of the regularities in the process of copolymerization  
of divinylbenzenes with styrene using azolyat as an  
emulsifying agent. Azerb. khim. zhur. no.1:37-42 '64.

(MIRA 17:5)

PETROVA, Z.G.; BABAYEVA, A.A.; SADYKHOVA, S.A.; ZEYNALOVA, K.G.

Some data on sulfocation exchangers obtained on the basis  
of polyalkyl benzenes produced by synthetic rubber plants.  
Azerb. khim. zhur. no.2:45-50 '63. (MIRA 16:8)

BAGBANLY, I.L.; ZEYNALOVA, Kh.L.K.

Titanium determination in magnetite sandstones. Dokl. AN Azerb. SSR  
17 no.9:793-796 '61. (MIRA 15:3)

1. Institut khimii AN AzSSR. Predstavleno akademikom AzSSR M. F.  
Nagiyevym.

(Rocks--Analysis) (Titanium)

S/137/61/000/012/033/149  
A006/A101

AUTHORS: Bagbanly, I.L., Zeynalova, Kh.L.

TITLE: Investigating means of obtaining titanium concentrate from the Dashkesan magnetite sandstone

PERIODICAL: Referativnyy zhurnal. Metallurgiya, no. 12, 1961, 16, abstract 12G116 ("Azerb. khim. zh.", 1961, no. 2, 75-79, Azerb, summary)

TEXT: The authors studied conditions of raising Ti concentration in a solution by lixiviating new portions of the melt in the alkali which was obtained from lixiviation of the previous portions. To perform the tests a sample was prepared containing in %:  $\text{SiO}_2$  20.43;  $\text{Fe}_2\text{O}_3$  8.40;  $\text{Al}_2\text{O}_3$  4.40;  $\text{TiO}_2$  6.57;  $\text{CaO}$  5.84;  $\text{MgO}$  1.36;  $\text{SO}_3$  1.14.  $\text{TiO}_2$  transition into the solution during the first processing was 73.5%. During the second and the subsequent processings the lixiviating capacity of the processed mass was strongly reduced. At 6-fold lixiviation the  $\text{TiO}_2$  transition into the solution was 30.14%. Experiments were also made for the purpose of obtaining Ti-concentrate by separating Fe from Ti-containing ores and reduction of Ti-ores with petroleum coke. The experiments were made with briquets in tablet form, prepared at 150 atm. pressure. At a

Card 1/2

Investigating means ...

8/137/61/000/012/033/149  
A006/A101

1:0.2 ratio of the rock to the coal a reduction by 11.34% was obtained. The temperature changed within 1,000 - 1,100°C, the reduction time was 4 hours. At 1,100°C the degree of reduction attained 40%. To obtain Ti-concentrate and separate the Fe metal from the reduction product, the latter was processed with  $\text{FeCl}_3$ . After processing with  $\text{FeCl}_3$  the solution contained about 1.5%  $\text{TiO}_2$ . The maximum  $\text{TiO}_2$  content in the concentrate attains up to 12.62%. ✓

G. Svodtseva

[Abstracter's note: Complete translation]

Card 2/2

BAGBANLY, I.L.; ZEYNALOVA, Kh.L.; MIRZOYEVA, T.R.

Study of the conditions for obtaining titanium dioxide from magnetite sandstone of the Dashkesan deposit by the acid treatment. Trudy Inst.khim. AN Azerb.SSR 18:55-66 '60. (MIRA 14:9)  
(Titanium oxide) (Dashkesan--Sandstone)

BAGBANLY, I.L.; ZEYNALOVA, Kh.L.K.

Methods for the preparation of titanium concentrate from a  
Dashkesan magnetite ~~sandstone~~.. Azerb.khim.zhur. no.2:75-79. '61.  
(MIRA 14:8)

(Titanium) (Sandstone)

S/081/62/000/006/054/117  
B149/B108

AUTHORS: Bagbanly, I. L., Zeynalova, Kh. L. K.

TITLE: Investigation of the ways of obtaining titanium concentrates from Dashkesan magnetite sandstone

PERIODICAL: Referativnyy zhurnal. Khimiya, no. 6, 1962, 393, abstract 6K81 (Azerb. khim. zh., no. 2, 1961, 75 - 79)

TEXT: The solubility of iron oxides in  $H_2SO_4$  is not diminished by the roasting of magnetite sandstone, therefore the concentration of Fe in the solution of  $Ti(SO_4)_2$  is several times higher than that of Ti, and pure  $TiO_2$  is difficult to obtain. The degree of reduction of the iron oxides to metallic Fe in the reduction of magnetite sandstone with methane in the pseudoliquefied layer reaches 60 %, the content in titanium oxide in the concentrate 15.0 %. 7 references. [Abstracter's note: Complete translation.]

Card 1/1

✓

BAGBANLY, I.L.; MIRZOYEVA, T.R.; ZEYNALOVA, Kh.L.

Purification of Nakhichevan rock salt. Trudy Inst. Khim. AN Azerb.  
SSR 16:108-117 '57. (MIRA 12:9)  
(Nakhichevan A.S.S.R.--Salt mines and mining)

MARDANOV, M.A.; VELIYEV, K.G.; ZEYNALOVA, L.M.

Study of fuel fractions of oil from the Buzovny field. Azerb.  
neft. khoz. 40 no.10:34-37 0 '61. (MIRA 15:3)  
(Apsheron Peninsula--Petroleum as fuel)

KULIYEV, I.A.; ZEYNALOVA, M.K.

Use of the theory of four-terminal networks in studying the parameters of a logging cable. Azerb. neft. khoz. 40 no.10:40-41  
O '61. (MIRA 15:3)

(Oil well logging, Electric)

ACC NR: AP7006289

(A)

SOURCE CODE: UR/0437/66/000/008/0019/0020

AUTHOR: Lantsevitskaya, S. L.; Zeynalova, S. I.; Protasov, G. N.; Shakhbuzov, D. A.

ORG: AzNIIBurneft'

TITLE: Experience in the use of slow-setting belite sealing cement slurry

SOURCE: Bureniye, no. 8, 1966, 19-20

TOPIC TAGS: cement, petroleum engineering

ABSTRACT: Data are given on well sealing operations using belite cement, a mixture of clinker (85%) and finely ground quartz sand (15%). An experimental batch of this material was used for cementing a number of wells in the "Glavmorneft'" administration and in setting a 219 mm liner in a well of the "Azneft'erazvedka" trust. Logging of this well showed a temperature of 117°C at a depth of 3764 m. Tests of the belite cement showed that it begins to set after 1 hour and 45 minutes at this temperature. The tensile strength of the material was 24.2 kg/cm<sup>2</sup> after two days. The procedure used for sealing off the well is described in detail. The results in this case show that slow-setting belite cement may be used for sealing off wells where the temperature of the working face reaches 75-140°C. The material retains its useful properties longer in "hot" wells than conventional sealing cement. Orig. art. has: 4 tables.

SUB CODE: 08, 11/ SUBM DATE: None

Card 1/1

UDC: 622.245.42

IZMAYLOV, Ya.A.; ABBASOV, F.A.; GORSKIY, R.G.; ZEYNALOVA, T.,  
red.; BAGIROVA, S., tekhn. red.

[Experimental apartment house made of vibrated concrete  
panels] Eksperimental'nyi zhiloi dom iz vibrokamennykh  
panelei. Baku, Azerbaidzhanskoe gos.izd-vo, 1963. 115 p.  
(MIRA 17:2)

NAGIYEV, M.F.; KARAMZIN, P.V.; STEFANSKAYA, T.G.; ZEYNALOVA, T.M.

Effective solutions of problems in the theory of recycling  
processes. Azerb. khim.zhur. no.3:3-15 '61. (MIRA 14:11)  
(Chemical engineering--Problems, exercises, etc.)

MAKHMUDOV, M.N.; ZEYNALOVA, T.Z., red.; AKHMEDOV, S., tekhn. red.

[Effect of some factors on the process of cementing wells]  
Vliianie nekotorykh faktorov na protsess tsementirovki  
skvazhin. Baku, Azerneshr, 1962. 86 p. (MIRA 15:11)  
(Oil well cementing)

ZEYNALOVA, V.A. (Baku)

Report on the activity of the Azerbaijan Urological Society in 1958.  
Urologiia 24 no.5:73-75 S-O '59. (MIRA 12:12)  
(AZERBAIJAN--UROLOGICAL SOCIETIES)

ZEYNALOVA, V.A. (Baku)

Report on the activity of the Azerbaijan Urological Society in  
1956. Urologiia 22 no.5:80-81 S-O '57. (MIRA 10:12)  
(UROLOGY)

~~ZEYNALOVA, V.A.~~ (Baku)

Report on the activities of the Azerbaijan Urological Society  
in 1957. Urologiia 23 no.5:83-84 S-O '58 (MIRA 11:11)  
(AZERBAIJAN--UROLOGY--SOCIETIES)

MAMEDOV, Shambal; OSIPOV, O.B.; ALIYEVA, Kh.M.; ZEYNALOVA, V.M.

Efiran-66, a new herbicide. Dokl. AN Azerb. SSR 17 no. 4: 331-334  
'61. (MIRA 14:6)

1: Institut neftekhimicheskikh protsessov AN AzerSSR.  
Predstavleno akademikom AN Azerbaydzhanskoy SSR V.R. Volobuyevym.  
(Herbicides) (Isopropyl ether)

Zeynalova, V. M.

USSR/Plant Diseases - Disease of Cultivated Plants .

0-3

Abs Jour : Ref Zhur - Biol., No 15, 1958, 68527

Author : Zeynalova, V.M.

Inst : As Azerbaydzhan SSR

Title : Rubrigo in Grain, Fodder, and Wild Grasses in Azerbayd-  
zhan.

Orig Pub : Izv. Acad Sci AzerbSSR, 1957, No 11, 103-112.

Abstract : 52 varieties of rust fungi have been discovered in the grain, fodder, and wild grasses of Azerbaydzhan; among them 46 varieties belong to the genus Puccinia and 6 to the genus Uromuces. Two species were found on grasses hitherto unknown in the USSR (U. koeleria Uljan, and P. mediterranea TR.). The uredo spore and teleuto spore stages of P. arrhenatheri Kl. (Er.) were discovered for the first time in the USSR. It has been determined

Card 1/2

ZEYNALOVA, V.M.

Rust fungi occurring on grain crops and forage and wild grasses of Azerbaijan [in Azerbaijani with summary in Russian]. Izv. AN Azerb. SSR no.11:103-112 '57. (MIRA 11:1)

(Azerbaijan--Uredineae)

CHANDIRLI, A.A.; ZEYNALOVA, Z.A.

Cholesterol content in the blood of workers coming in close contact with tobacco dust. Azerb. med. zhur. 41 no.5:83-87 My '64.

(MIRA 18:10)

1. Iz otdela kardiologii Azerbaydzhanskogo instituta eksperimental'noy i klinicheskoy meditsiny AMN SSSR.

GORIN, V.A.; SULTANOV, K.M.; ZHARLOVA, Z.G.

Lokbatan-Atashkya-Bibloylat tectonic block. Uch.zap.AGU.Ser.geol.-  
geog.nauk no.5:9-13 '61. (MIRA 16:9)

ZEYNALOVA, Z.G.; GOREN, V.A.

Some characteristics of the sedimentation of coarse detrital material in the lower part of the Balakhany series. Izv. AN Azerb. SSR Ser. geol.-geog. nauk i nefti no.5:73-76 '62.  
(MIRA 16:6)

(Apsheron Peninsula—Rocks, Sedimentary)

ZEYNALLY, M.I.

Selecting the drive method for oil fields. Azerb.neft.khoz. 35  
no.7:16-18 JI '56.

(MLRA 9:12)

(Petroleum engineering)

ZEYNALLY, M.I.; SHAPIRO, B.A.; BABAYEVA, V.A.; KUZINA, V.V.; KUZNETSOVA, V.G.

Some results of flooding the Kirmaki 11 horizon in the southern depressed section of the Buzovny oil fields. Azerb.neft.khoz. 35 no.10:13-16 0 '56.

(MIRA 10:1)

(Buzovny--Oil filed flooding)

Zeynally, M. I.

Subject : USSR/Mining AID P - 3821  
Card 1/1 Pub. 78 - 9/25  
Author : Zeynally, M. I.  
Title : ~~Some results of peripheral flooding of the sub-~~ Kirmaku  
strata in one of the sections of the Mashtagi - Buzovny  
area  
Periodical : Neft. khoz., v. 33, #11, 50-55, N 1955  
Abstract : This section located on the Apsheron Peninsula near Baku  
is one of the first where secondary recovery of oil by  
the flooding method has been tried. The flooding  
operations were started near Mashtagi in 1948 and extended  
near Buzovny in 1952. The results proved satisfactory and  
therefore those secondary recovery operations may be  
extended. Charts, tables.  
Institution : None  
Submitted : No date

89120

9.4160 (also 1137)

S/058/61/000/002/006/018  
A001/A001

Translation from: Referativnyy zhurnal, Fizika, 1961, No. 2, p. 307, # 2E477

AUTHORS: Zeynalov, A.Kh., Kolomiyets, B.T.

TITLE: Conductivity and Photoconductivity of Antimony Selenide Single Crystals

PERIODICAL: "Uch. zap. Azerb. un-t. Fiz.-matem. i khim. ser.", 1959, No. 4, pp. 37 - 44 (Azerb. summary)

TEXT: It is shown that photoconductivity of  $Sb_2Se_3$  single crystals has some characteristic features. A study of dependence of photocurrent on illumination intensity revealed that recombination was not of bimolecular nature, at least up to illuminations of 1,500 lux. One level of recombination centers is at 0.54 eV from the valence zone. The curve of photosensitivity spectral distribution has, in addition to the main maximum located at the absorption edge ( $1 \mu$ ), one more maximum within the absorption band ( $0.5 \mu$ ). The presence of this second maximum points out specificity of surface photoconductivity in  $Sb_2Se_3$  single crystals which should become the subject of a special study. An analysis of re-

Card 1/2

89120

S/058/61/000/002/006/018  
A001/A001

Conductivity and Photoconductivity of Antimony Selenide Single Crystals

Relaxation curves of photoconductivity showed the presence of adhesion levels. Due to this fact the time of photocurrent drop at small light fluxes becomes equal to  $4 \times 10^{-4}$  sec which is considerably longer than the actual life time of non-equilibrium carriers, being  $10^{-5}$  sec. The high integrated sensitivity, specific features of spectral distribution and low inertness of  $\text{Sb}_2\text{Se}_3$  render it the material with favorable outlook for new photoresistors. ✓

Translator's note: This is the full translation of the original Russian abstract.

Card 2/2

ZEYNALOV, B. K.

ZEYNALOV, B.K.; MAMEDOVA, S.G.

Kinetics and chemical characteristics of homogeneous catalysis  
of processes of liquid-phase oxidation of wide and narrow fractions  
of paraffin distillate. Trudy Inst.khim.AN Gruz.SSR 12:251-257. '56.  
(MLRA 10:5)

1.Institut khimii Akademii nauk Azerbaydzhanskoy SSR.  
(Paraffins) (Catalysis) (Oxidation)

ZEYNALOV, B.K.

Synthesis of homogeneous and mixed 1,3-dihalo derivatives of saturated hydrocarbons from  $\gamma$ -halo- and chloro-  
alkanes. B. K. Zeynalov, *Trudy Inst. Khim. Akad. Nauk* (U.S.S.R.) 47: 1034 (1953) (Russian) Zhurav  
Khim. 1954: 1287. A method was described for the synthesis of 1,3-dihalo derivatives of saturated hydrocarbons from  $\gamma$ -halo- and chloro-alkanes.

ZEYNALOV, B.K.

Study of the oxygenated paraffin distillate and of the separated components. Trudy Inst.khim. AN Azerb. SSR no.13:91-103 '54.  
(Paraffins) (Oxidation) (MLRA 8:6)

ZEYNALOV, B.K.; LEYKAKH, V.S.

Kinetics and the chemistry of liquid-phase oxidation of normal  
hexadecane  $C_{16}H_{34}$ . Izv.AN Azerb.SSR no.9:17-31 S '56.(MLBA 9:11)  
(Hexadecane)

ZEYNALOV, B.K.; LEYMAKH, V.S.

Kinetics and chemism of liquid phase processes of normal hexadecane  
 $C_{16}H_{34}$ . Izv. AN Azerb. SSR no.12:37-43 D '56. (MLRA 10:4)  
(Hexadecane)

ZEYNALOV, B.K.

155 R.

1. *Handwritten signature*

ZEYNALOV, B.K.; LEYKAKH, B.S.

Kinetics and chemical affinity of liquid-phase oxidation of  
n-hexadecane  $C_{16}H_{34}$ . Izv. AN Azerb. SSR no.10:3-21 0 '54.  
(Hexadecane) (MIRA 8:11)

ZEYNALOV, B. K. and MAMEDOVA, S. G.

"Kinetics and Chemistry of Homogeneous Catalysis of the Processes of Liquid Phase Oxidation of Wide- and Narrow-Range Fractions of Paraffin Distillate".  
Izv. An Az SSR, No. 10, pp 3-27, 1953.

Studied the process of liquid phase oxidation of narrow- and wide-range fractions of paraffin distillate that has been purified from aromatic and unsaturated hydrocarbons. Used calcium salts of water-insoluble carboxylic acids as catalysts. The composition of the products and the degree of oxidation were independent of the amount of catalyst used, which indicates that the catalyst was active only in the initial state of the reaction, according to the authors. The narrow-range fraction could be oxidized to only a certain limited extent (50% of the initial products) after which dehydration of hydroxy acids and destructive oxidation apparently took place. (RZhKhim, No 4, 1955)

SO: Sum No 884, 9 Apr 1956

ZEYNALOV, S. S.

Zeynalov, S. S. - "On the theory of linear singular equations in a uvitary ring," Doklady (Akad. nauk. Azerbaydzh. SSR), 1949, No. 4, p. 155-59, - (Resume in Azerbaijani)

SO: U-5241, 17 December 1953, Letopis' Zhurnal'nykh Statey, No. 26, 1949.

ZEYNALOV, YU. M.

ZEYNALOV, YU. M. --"Effect of the Travel Rate of a Seed-Scattering Unit on the Vertical Dissemination of Cotton Seed. \*(Dissertations For Degrees In Science and Engineering Defended at USSR Higher Educational Institutions) (29) Min Higher Education, Azerbaijan Agricultural Inst, Kirovabad, 1955

SO: Knizhnaya Letopis' No 29, 16 July 1955

\* For the Degree of Candidate in Agricultural Sciences

KERIMOV, B.M. ; ZHEYNALOV, Z.I.

Prospecting in the Darwin Shoal field and trends in its further  
development. Azerb. neft. khoz. 39 no.5:6-8 My '60. (MIRA 13:10)  
(Apsheron Archipelago--Prospecting)

AKHMET'YEVA, S.; ZEYNALOVA, A.

Hemorrhage in placental and early puerperal stages according to  
data from the Azizbekov Maternity Home No. 1. Akush.i gin. no.2:  
87-89 Mr-Ap '55. (MJRA 8:7)

1. Iz rodit'nogo doma No. 1 imeni Azizbekova (glavnyy vrach Ashu-  
mova, nauchnyy rukovoditel' - prof. Gadzhi-Kasumov) Baku.  
(UTERUS, hemorrhage,  
in third stage & puerperium, hosp. statist.)  
(LABOR,  
third, stage, with hemorrh., hosp. statist.)  
(HEMORRHAGE,  
uterus, in third stage & puerperium, hosp. statist.)  
(PUERPERIUM, complications,  
hemorrh., hosp. statist.)

KULIYEV, A.M.; ZEYNALOVA, G.A.; ORUZHIEVA, I.M.; LEVSHINA, A.M.

Improving output factors of diesel engines operating on sulfurous  
fuels. Azerb.neft.khoz.35 no.12:44-46 D '56. (MIRA 10:3)  
(Diesel engine) (Diesel fuels)